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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/924,620	08/07/2001	Marcus Tong	2001P4227US01	3155
7590 03/17/2008 Siemens Corporation Attn: Elsa Keller, Legal Administrator			EXAMINER	
			LEVITAN, DMITRY	
	Intellectual Property Department 186 Wood Avenue South		ART UNIT	PAPER NUMBER
Iselin, NJ 08830			2616	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)
	09/924,620	TONG ET AL.
Office Action Summary	Examiner	Art Unit
	Dmitry Levitan	2616
The MAILING DATE of this communication ap Period for Reply	ppears on the cover sheet with the	correspondence address
A SHORTENED STATUTORY PERIOD FOR REPLEWHICHEVER IS LONGER, FROM THE MAILING ID. - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period. - Failure to reply within the set or extended period for reply will, by stature Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATIO .136(a). In no event, however, may a reply be tind d will apply and will expire SIX (6) MONTHS from te, cause the application to become ABANDONE	N. mely filed the mailing date of this communication. ED (35 U.S.C. § 133).
Status		
Responsive to communication(s) filed on 29 I 2a) This action is FINAL . 2b) This action is FINAL . 3) Since this application is in condition for allowed closed in accordance with the practice under	is action is non-final. ance except for formal matters, pr	
Disposition of Claims		
4) Claim(s) 1-10,12,14,19 and 20 is/are pending 4a) Of the above claim(s) is/are withdra 5) Claim(s) is/are allowed. 6) Claim(s) 1-10, 12, 14, 19 and 20 is/are rejected 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/	awn from consideration.	
Application Papers		
9) The specification is objected to by the Examin 10) The drawing(s) filed on is/are: a) ac Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the E	cepted or b) objected to by the edrawing(s) be held in abeyance. Section is required if the drawing(s) is ob	e 37 CFR 1.85(a). ojected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreig a) All b) Some * c) None of: 1. Certified copies of the priority documer 2. Certified copies of the priority documer 3. Copies of the certified copies of the priority documer application from the International Burea * See the attached detailed Office action for a lis	nts have been received. nts have been received in Applicat ority documents have been receiv au (PCT Rule 17.2(a)).	ion No ed in this National Stage
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal I 6) Other:	ate

Art Unit: 2616

1. Applicant's request for reconsideration of the finality of the rejection of the last Office

action is persuasive and, therefore, the finality of that action is withdrawn.

Amendment, filed 2/29/08, has been entered. Claims 1-10, 12, 14, 19 and 20 remain pending.

Claim Rejections - 35 USC § 112

2. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

3. Claims 1-10, 12, 14, 19 and 20 are rejected under 35 U.S.C. 112, second paragraph, as

being indefinite for failing to particularly point out and distinctly claim the subject matter which

applicant regards as the invention.

Claims 1-10, 12 and 14 limitations, directed to "jitter buffers" are unclear, because the

disclosed buffers are not used for any operation/reduction of jitter, but to adjust the signal rate at

a different frequency. Therefore it is not understood, what buffers are considered "jitter" buffers

and what are not.

Claims 4, 8 and 19 limitations, directed to "said/second clock frequency comprising a

frame clock rate" are unclear, because it is not understood how a clock/frequency can comprise

another clock/frequency, as the frequencies which are interrelated, as being multiples of the same

source frequency, do not comprise each other or the source frequency, as 8 KHz does not

comprise 4 KHz or 2KHz dos not comprise 4 KHz.

Other claims are rejected as the claims depending on the claims rejected above.

Art Unit: 2616

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 1-10, 12, 14, 19 and 20 are rejected (as best understood) under 35 U.S.C. 103(a) as being unpatentable over Greenblatt (US 5,136,586) in view of Matsumoto (US 5,812,944).
- 6. Regarding claims 1, 5, 12 and 19, Greenblatt substantially teaches the limitations of the claims:

A system and a method for rate adaptation in a communication system (multiplexing a voice signal into a frame, as shown on Fig.1-3, and disclosed on 2:33-3:50), comprising: first circuitry in a first clock domain operable at a first clock frequency (A-D converter operable at clock C, as shown on Fig. 2 and disclosed on 2:45-55); second circuitry in a second clock domain operable at a second clock frequency (D-A converter operating at a higher frequency C2, as shown on Fig.2 and disclosed on 2:56-61); first and a second buffer pair interfacing between said first circuitry and said second circuitry domain, said first buffer pair comprising first and second jitter buffers (a pair of buffers A and B, interfacing A-D and D-A converters, as shown on Fig. 2 and disclosed on 3:5-16), wherein said first or second jitter buffers alternately fill at said first clock frequency and empty at said second clock frequency, wherein alternation between said first and second buffers occurs simultaneously at said second clocking frequency, said first clocking frequency associated with a

sample clock, said second clocking frequency associated with a frame clock (alternating at each frame interval/clock entering data into buffers at first frequency C, which is a sample frequency 8 KHz, and read out data from buffers at second frequency C2, as disclosed on 3:6-16, wherein the second frequency C2 is associated with a frame clock, as CLOCK C2 is derived from FRAME PULSE, as shown on Fig. 2 and disclosed on 3:61-4:9).

Greenblatt does not teach implementing his system as a wireless system and using a second buffer pair comprising third and fourth buffers.

Matsumoto teaches a by-directional wireless system, wherein the communication system for voice is implemented by radio means and provide audio conversion in both directions to accommodate both speaker 25 and microphone 10, as shown on Fig. 1.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to add implementing the communication system as a wireless and by-directional system of Matsumoto to the system of Greenblatt, adding third and fourth buffers for the other direction of voice transmission, to implement the system in wireless environment to provide mobility to the users and adapt the system for the typical by-directional voice communication.

In addition, regarding claim 5, Greenblatt inherently teaches audio input and output in the system, because they are essential for the system operation to receive the audio signal from a microphone and transmit the output audio signal to telephone lines, as shown on Fig. 2. and buffers A and B inherently comprising interface circuitry, because interface circuitry is essential for the system to connect A-D and D-A elements to the buffers.

Art Unit: 2616

7. Regarding claims 2, 3 and 6, Matsumoto teaches using encoders and decoders for digital signal processing 30 to exclude echo from the wireless system, as shown on Fig. 1 and disclosed on 2:23-3:9.

- 8. Regarding claim 7, Greenblatt teaches using first frequency as the 8 KHz sampling frequency at A-D conversion, which is a PCM conversion, disclosed on 2:45-55.
- 9. Claims 4, 8 and 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Greenblatt in view of Matsumoto.

Greenblatt in view of Matsumoto substantially teaches the limitations of the claims (see claims rejection above), in addition Greenblatt teaches the second frequency C2 related to the frame clock, as CLOCK C2 is derived from FRAME PULSE, as shown on Fig. 2 and disclosed on 3:61-4:9.

Greenblatt in view of Matsumoto does not teach selecting second/C2 frequency equal to the frame frequency.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to add selecting second/C2 frequency equal to the frame frequency to the system of Greenblatt in view of Matsumoto to simplify the system by excluding use of an additional frequency, as the frame frequency/FRAME PULSE is already used in the system.

10. Claim 9 is rejected under 35 U.S.C. 103(a) as being unpatentable over Greenblatt in view of Matsumoto.

Greenblatt in view of Matsumoto substantially teaches the limitations of the claim (see claims rejection above).

Greenblatt in view of Matsumoto does not teach a frame comprises 160 samples.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to add selecting the frame comprising 160 samples to the system of Greenblatt in view of Matsumoto as a design choice, as frames comprising 80 samples or 320 samples will work in the system as well.

Page 6

11. Claim 10 is rejected under 35 U.S.C. 103(a) as being unpatentable over Greenblatt in view of Matsumoto.

Greenblatt in view of Matsumoto substantially teaches the limitations of the claim (see claims rejection above).

Greenblatt in view of Matsumoto does not teach buffers length as 165 samples.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to add selecting the buffers length as 165 samples to the system of Greenblatt in view of Matsumoto as a design choice, as buffers comprising 164 samples or 166 samples will work in the system as well.

12. Claim 20 is rejected under 35 U.S.C. 103(a) as being unpatentable over Greenblatt in view of Matsumoto.

Greenblatt in view of Matsumoto substantially teaches the limitations of the claim (see claims rejection above).

Greenblatt in view of Matsumoto does not teach using system in a GSM/TDMA multi-mode phone.

Official notice is taken that GSM/TDMA multi-mode telephones are well known in the art.

Art Unit: 2616

It would have been obvious to one of ordinary skill in the art at the time the invention was made to implement the system of Greenblatt in view of Matsumoto as a GSM/TDMA multi-

mode telephone system, to make the system compatible with two popular wireless standards.

Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Dmitry Levitan whose telephone number is (571) 272-3093. The

examiner can normally be reached on 8:30 to 4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Lynn Feild can be reached on (571) 272-2092. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

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Dmitry Levitan Primary Examiner Art Unit 2616

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